



Interdisciplinary PhD Program in Cognitive and Systems Neuroscience

NÖROM – Institute of Neuroscience and Neurotechnology
Gazi University, Ankara, Türkiye



Bridging brain, computation, and technology

Why Institute of Neuroscience and Neurotechnology?

Excellence in Neuroscience and Neurotechnology



Excellence in Neuroscience and Neurotechnology

A leading interdisciplinary research hub integrating neuroscience, engineering, AI, and clinical sciences



State-of-the-Art Research Infrastructure

Access to advanced human brain research technologies including fMRI, EEG, fNIRS, TMS, and neurostimulation systems



Truly Interdisciplinary Environment

Bringing together researchers from psychology, medicine, engineering and computational sciences



Truly Interdisciplinary and Computational Training

Combining cognitive theory, brain imaging, electrophysiology, and data-driven modeling approaches



International Research Vision and Collaboration

Supporting high-impact research, global partnerships, and scientific innovation

Why This PhD Program?

A unique interdisciplinary training at the intersection of brain, technology, and computation



Bridging Cognitive Theory, Brain Technology, and Computation

An integrated training combining cognitive neuroscience, advanced neuroimaging, electrophysiology, and computational modeling



Designed to Address a Critical Gap in Neuroscience Training

Few programs provide a unified framework integrating theory, experimental methods, and data-driven approaches



Access to Advanced Human Brain Research Technologies

Training with fMRI, EEG, fNIRS, TMS, and neurostimulation methods within a single program



Interdisciplinary Entry, Flexible Backgrounds

Open to students from neuroscience, psychology, engineering, health sciences, and quantitative disciplines



Structured 4-Year PhD with Early Research Integration

Optimized to develop independent researchers through early and continuous involvement in research

Training the next generation of interdisciplinary neuroscientists



Interdisciplinary Structure

Integrating multiple disciplines to understand the brain across levels

Cognitive Neuroscience and Behavioral Science

Understanding perception, attention, learning, memory, and decision-making



Systems Neuroscience and Brain Dynamics

Investigating neural coding, large-scale brain networks, and functional organization.



Experimental Methods

Training in advanced techniques including fMRI, EEG, fNIRS, TMS, and neurostimulation



Data Science

Modeling brain function using statistical, machine learning, and AI-based approaches



Translational Neuroscience

Linking fundamental research to neurological and psychiatric conditions



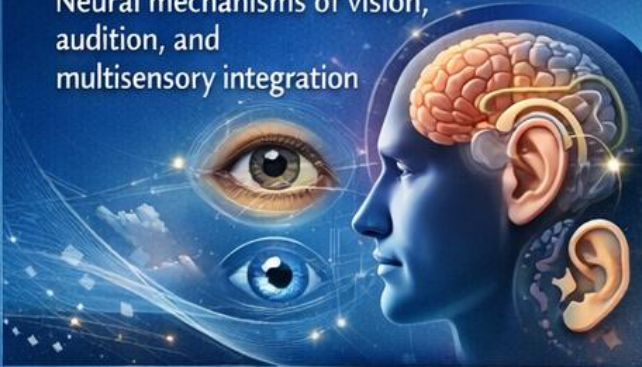
From neural mechanisms to behavior and real-world applications

Research Areas

Exploring the neural basis of cognition across multiple domains

Perception and Sensory Processing

Neural mechanisms of vision, audition, and multisensory integration



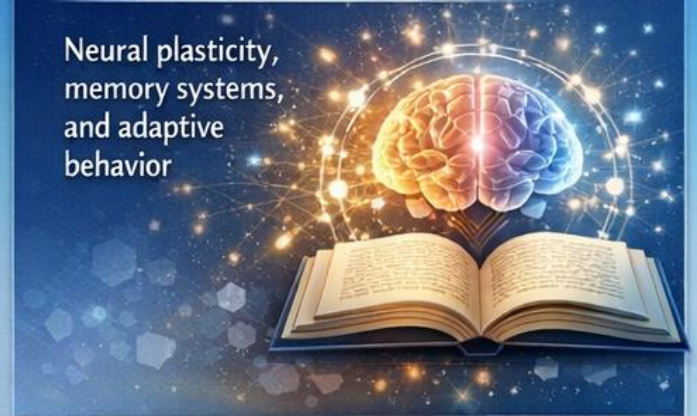
Attention and Cognitive Control

Dynamic allocation of cognitive resources and executive functions



Learning and Memory

Neural plasticity, memory systems, and adaptive behavior



Decision-Making and Cognitive Dynamics

Computational and neural mechanisms underlying decisions and behavior



Brain Networks and Functional Organization

Large-scale brain systems and their reorganization across conditions



From fundamental cognitive processes to complex brain systems

Research Infrastructure

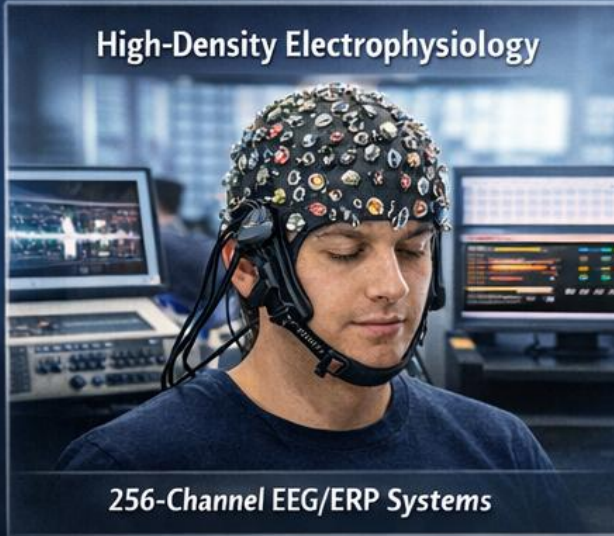
State-of-the-art multimodal platforms for human brain research

Advanced Human Neuroimaging



3T fMRI, MR-compatible EEG, Eye Tracking &

High-Density Electrophysiology



256-Channel EEG/ERP Systems

Neurostimulation & Brain Modulation



TMS & tES Stimulation Systems

Mobile & Social Neuroscience



fNIRS, Mobile EEG & Real-World Studies

Computational & Data Analysis



High-Performance Computing & TRUBA HPC

Virtual Reality & Experimental Platforms



Immersive VR/MR Systems

Enabling cutting-edge, multimodal neuroscience research

Training & Academic Structure

From structured training to independent research



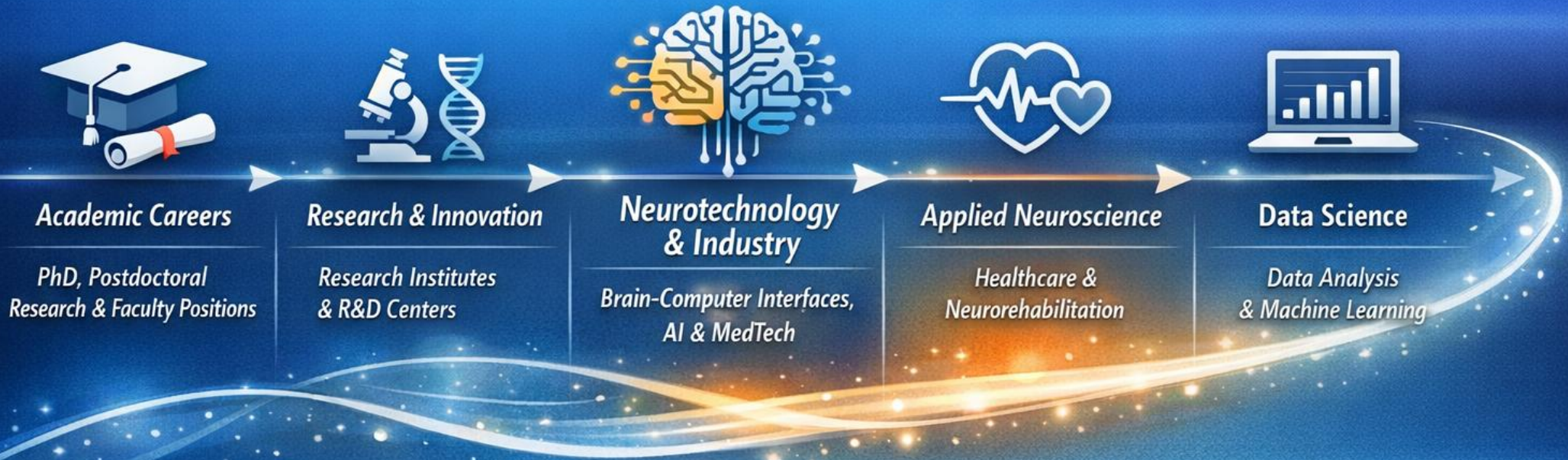
Seminars & Skill Development



Critical Thinking & Methodology Training

Career Outcomes & Opportunities

Preparing graduates for careers in academia, industry, and beyond



Equipping researchers with interdisciplinary and transferable skills

How to Apply

Join an interdisciplinary PhD program in cognitive and systems neuroscience



Eligibility

- MSc degree in neuroscience, psychology, engineering, health sciences, or related disciplines



Academic Requirements

- ALES ≥ 80 (or GRE Quantitative ≥ 155 for international applicants)
- GPA ≥ 2.50 (≥ 3.00 for direct PhD after MSc)



Language Requirement

- YDS/YÖKDİL ≥ 85 or TOEFL iBT ≥ 100 (writing ≥ 20)
- IELTS ≥ 7.0 (writing ≥ 7.0)



Evaluation Process

- Pre-selection & interview/written exam
- Final evaluation of academic scores and application materials

Application Calls Announced via:

Institute of Neuroscience and Neurotechnology Website

insnorom.gazi.edu.tr

Become part of a next-generation neuroscience research environment